

# **EPA Registration Jacket**

## **73801-2**

## To the Document Center (ITRMD)

\*Please transfer jacket/mini-jacket to the Product Manager Team circled below:

Minor Use Section: **PM -5**

Insecticide Branch: **PM -10** **PM-13**

Herbicide Branch: **PM-23** **PM-25**

Fungicide Branch: **PM-20** **PM-21** **PM-22**

Insect/Rodent Branch: **PM-1** **PM-7**

\*Reminder to PM – If applicable, pick-up data from the Screening Room.

Processed by RD's Completeness Check Team

  
\_\_\_\_\_  
(Team Member Signature)

10/16/12  
\_\_\_\_\_  
(Date)

21-Day Screen Completed by  
Contractor

21-Day Expires on 10/19/12

Jacket # 73801-E

MRID# 489549

Content Screen: Recommend to Pass/Fail

11-3 Review: Pass/Fail/NA

Overall Status: Recommend to Pass/Fail

Transfer This Jacket to:

Stephen Schaible

## NEW APPLICATIONS

DATE: SEP 28 2012

FILE NUMBER: 73801 - E

FEP (OPPIN ENTRY) LV SEP 28 2012  
(Initial & date)

FILE ROOM: \_\_\_\_\_  
(Initial & date)

SIG: \_\_\_\_\_  
(Initial & date)

FILE ROOM: \_\_\_\_\_  
(Initial & date)

✓ ASSIGN TO PM -10 (NO DATA)

       JACKET TO SHELF (DATA)

# Material Sent for Data Extraction

Reg. # 73801-2

Description: \_\_\_\_\_

☐ Material(s) Sent to Data Extraction Contractors:

☐ New Stamped Label Dated \_\_\_\_\_

☒ Notification Dated 12/20/13

☐ New CSF(s) Dated \_\_\_\_\_

☐ Other: \_\_\_\_\_

☒ Decision #: 486672

☒ Other Action/Comments: Please image new  
label approved through notification &  
upload to PPLS

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: Carlyn Petrella

Phone: 347-0439 Division: RD

Date: Jan 10, 2014



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

December 20, 2013

Jane Miller, Agent  
Tagros Chemicals India, Ltd.  
c/o Biologic Consulting, Inc.  
115 Obtuse Hill Road  
Brookfield, CT 06804

Subject: Permethrin Technical, EPA Reg. No. 73801-2  
Notification to Correct Typo

Dear Ms. Miller:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated December 3, 2013 for the product 73801-2. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6701 or Carlyn Petrella of my staff at 703-347-0439.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard Gebken".

Richard Gebken  
Insecticide Branch PM 10 Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration Amendment Other  
OPP Identifier Number  
**NOTIFICATION**  
DEC 20 2013

### Application for Pesticide - Section I

1. Company/Product Number 73801-2	2. EPA Product Manager R. Gebken	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Permethrin Technical	PM# 10	
5. Name and Address of Applicant (Include ZIP Code) Tagros Chemicals India, Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional pages if necessary. (For section I and Section II.)

This is a notification to correct a typo in the cis/trans ratio per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and the EPA regulations at 40 CFR 152.46 and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> on label	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

### Section - IV

t. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Jane M. Miller		Title Agent		Telephone No. (Include Area Code) (203) 740-1200	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					Date Application Received (Stamped)
2. Signature 		3. Title Agent			
4. Typed Name Jane M. Miller		5. Date December 3, 2013			

December 3, 2013

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
US Environmental Protection Agency  
One Potomac Yard, 2777 S. Crystal Drive  
Arlington, VA 22202-4501

Attention: Mr. Richard Gebken (PM #10)

Re: "Permethrin Technical", EPA Reg. No. 73801-2  
Notification to Correct Typo

Dear Mr. Gebken:

On behalf of Tagros Chemicals India, Ltd. please find enclosed an Application for Pesticide Notification for the above-mentioned product. This notification is to correct a typo made in the statement of the "cis/trans ratio" on the front panel. It should state "Min. 40% ( $\pm$ ) cis and Max. 60% ( $\pm$ ) trans".

This action fits the definition of a Notification and:

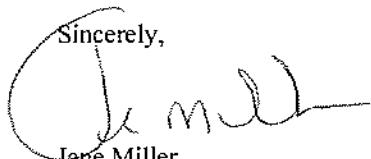
"This notification is consistent with the provisions of PR Notice 98-10 and the EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

The following documents are enclosed to process this Notification:

1. Application for Pesticide Notification (EPA Form 8570-1).
2. One (1) copy of the proposed label with the corrections highlighted
3. One (1) clean copy of the proposed label.
4. One (1) copy of the proposed label in Pdf.

Should you have any questions, or wish to reach me, please feel free to contact our office at 203-740-1200.

Sincerely,



Jane Miller  
Agent to Tagros Chemicals India, Ltd.

**NOTIFICATION**

**DEC 20 2013**

## **PERMETHRIN TECHNICAL**

**AN INSECTICIDE FOR FORMULATING USE ONLY**

**ACTIVE INGREDIENT:**

*Permethrin.....	97.0%
OTHER INGREDIENTS:.....	3.0%
Total	100.0%

\*cis/trans ratio: Min. 40% (+) cis and Max. 60% (+) trans.

**KEEP OUT OF REACH OF CHILDREN**

### **WARNING**

First Aid	
If Inhaled:	Move the person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.
If Swallowed:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on Skin or Clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in Eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Have the product container with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies, or pesticide concerns), you may call 1-800-222-1222.	

**Manufactured by:**

Tagros Chemicals India, Ltd.  
Jhaver Centre, Rajah Annamalai Building, 4<sup>th</sup> Floor  
72 Marshalls Road  
Egmore, Chennai  
600 008, India  
India

EPA Reg. No. 73801-2

EPA Est. No. [REDACTED]

Net Weight: 496.04 lbs (225 kg)

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

## WARNING

May be fatal if inhaled. May be fatal swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Do not breathe spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid contact with skin, eyes, or clothing. Wear long-sleeved shirt and long pants, socks, shoes, and gloves. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### Environmental Hazards

This product is extremely toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### Physical and Chemical Hazards

Do not use or store near heat or open flame.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

## STORAGE AND DISPOSAL

**Prohibitions:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**Pesticide Storage:** Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

**Container Handling: Nonrefillable container. Do not reuse or refill this container.** Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities

Formulators using this product are responsible for obtaining EPA registration for their formulated product which may be labeled for the use patterns as found listed on this label.

## ONLY FOR FORMULATION INTO AN INSECTICIDE/TERMITICIDE FOR THE FOLLOWING USES:

### Terrestrial Food:

Alfalfa  
Almonds  
Apples  
Artichokes  
Asparagus

Leafy vegetables (except Brassicas)<sup>3</sup>  
Mushrooms  
Onions (dry bulb & garlic)  
Papaya (FL only)  
Peaches, Nectarines

Asparagus Fern	Pears
Avocados	Peppers, bell
Cherries	Pistachios
Cole Crops <sup>1</sup>	Potatoes
Collards	Range Grass (NM only)
Cucurbit vegetables <sup>2</sup>	Soybeans
Eggplant	Sweet Corn
Field corn/popcorn/seed corn	Tomatoes
Filberts	Turnips
Horseradish	Walnuts

<sup>1</sup> Broccoli, Chinese broccoli, Brussels sprouts, cabbage, Chinese cabbage, cauliflower, Cavolo broccoli, and kohlrabi.

<sup>2</sup> Chayote (fruit) (*Sechium edule*); Chinese waxgourd (Chinese preserving melon) (*Bemincasa hispida*); Citron melon (*Citrullus lanatus* var. *citroides*); Cucumber (*Cucumis sativus*); Gherkin (*Cucumis anguria*); Gourd, edible (*Lagenaria* spp.) (includes hyotan, cucuzza); (*Luffa* spp.) (includes hechima, Chinese okra); (*Momordica* spp.) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber; Muskmelon (hybrids and/or cultivars of *Cucumis melo*) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Calus melon, and snake melon); Pumpkin (*Cucurbita* spp.); Squash, summer (*Cucurbita pepo* var. *melo*) (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); Squash, winter (*Cucurbita maxima*; *C. moshata*) (includes butternut squash, calabaza, hubbard squash) (*C. mixta*; *C. pepo*) (includes acorn squash, spaghetti squash); Watermelon (includes hybrids and/or varieties of *Citrullus* spp.).

<sup>3</sup> **Amaranth** (leafy amaranth, Chinese spinach, tampala); Arugula (*Roquette*); Cardoon; Celery; Celery, Chinese; Celtuce; Chervil; Chrysanthemum, edible-leaved and garland; Corn salad; Cress, garden; Cress, upland (yellow rocket, winter cress); Dandelion; Dock (sorrel); Endive (escarole); Fennel, Florence (finocchio); Lettuce, head and leaf; Orach; Parsley; Purslane, garden; Purslane, winter; Radicchio (red chicory); Rhubarb; Swiss chard.  
**Spinach** (including New Zealand and vine, Malabar spinach, Indian spinach).

**Indoors:** Wood and wood structure protection (against termites, beetles, etc.) and general insect pest control in buildings, structures, transports and their immediate surroundings, including but not limited to: agricultural (exterior surfaces of non-poultry facilities, interior and exterior surfaces of poultry houses), industrial and commercial buildings, houses, apartment buildings, laboratories, buses, greenhouses (non-food crops) and the non-food/feed areas of stores, warehouses, vessels, railcars, trucks, trailers, aircraft, schools, nursing homes, hospitals, (non-patient areas), restaurants, hotels, food manufacturing, processing and serving establishments, and landscapes in interior gardens.

**Terrestrial Outdoor (Non-Food) Uses:** Ornamentals including non-bearing fruit and nut trees grown for ornamental purposes, evergreens, ornamental trees, shrubs, vines, ground covers, lawn and turfgrass grown around industrial and commercial buildings, private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, sport fields and complexes, tennis courts, fence lines, storage sheds, barns, and their structures (fences, slabs, crawlspaces, foundations, porches, window frames, eaves, patios, garages) and refuse dumps.

**Greenhouses:** Indoor and outdoor (shade house) grown floral and foliage plants (non-food uses).

**Domestic Indoor/Outdoor (noncommercial homeowner uses):** Yards, lawns, turf, domestic ornamental plantings (trees, shrubs, flowers), ornamental fruit and nut trees around residential sites, porches, patios, foundations, steps, eaves, buildings (for termites, beetles, ticks, including ticks which carry Lyme disease and Rocky Mountain Spotted Fever, and directed pesticide control for ants, cockroaches, spiders and nuisance insect pests).

**Non-Crop:** Non-food producing areas such as farmyards, fuel storage areas, fence rows, rights-of-way (highway, railroad, utility), airports, recreation areas (fairgrounds, race tracks, tennis courts, fence rows, hedgerows, non-agricultural areas for directed pest control to pests (beehives, ant mounds, termite hills/nests).

**Domestic Farm Animals:** Cattle, Horses, Swine, Poultry.

**Companion Animals**

**General Outdoor Insect Control**

**Domestic Outdoor-Wood or Wood Structure Protection Treatments**

**Mosquito Control**

**Fiber Product Protection**

**Human Articles and Materials**

**Other Uses**

(1). **Uses for which USEPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration; and**

(2). **Uses for experimental purposes that are in compliance with USEPA requirements.**

**NOTE: Not for use to formulate products to be used:**

- In warehouses where raw or cured tobacco is stored.
- In warehouses while raw agricultural commodities for food or feed are stored.
- In greenhouses where crops for food or feed are grown.

## **CONDITIONS OF SALE AND LIMITATION OF WARRANTY**

Tagros Chemicals India, Ltd. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Tagros Chemicals India, Ltd. To the extent consistent with applicable law, Tagros Chemicals India, Ltd. shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. To the extent consistent with applicable law, the exclusive remedy of any Buyer or User of this product and any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort negligence, strict liability, or otherwise, shall not exceed the purchase price of this product. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. TAGROS CHEMICALS INDIA, LTD. MAKES NO WARRANTIES OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

# Receipt for Section 3

S: 944524

Resubmission: ☐ Yes ☒ No

Regulatory Type: Product Registration - Section 3

Fee For Service: ☐ Yes ☒ No

Application Type: Notification

Print Letter

Enter More Information

Tracking

Company: 73801 TAGROS CHEMICALS INDIA LTD.



Risk Manager: Registration Division, Risk Management Team 10

Product #: 73801-2

Product Name: PERMETHRIN TECHNICAL

Overrides:

Me Too

Me Too

Section3

Product Name:

Application Date: 03-Dec-2013



OPP Rec'd Date: 04-Dec-2013



Front End Date: 04-Dec-2013



Risk Manager Send Date: 04-Dec-2013



FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

Label Notification to correct typo in statement of "cis/trans ratio"--which should state: 'Min. 40% (+) cis and Max. 60% (+) trans'

Receipt Content

Des

Paper Label

Electronic Label

View/Edit

Form A: ☐

Signature Date:

Form B: ☐

Signature Date:

332  
LINDA



U.S. ENVIRONMENTAL PROTECTION  
AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Avenue, N.W.  
Washington, D.C. 20460

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration

(under the Federal Insecticide,  
Fungicide, and Rodenticide Act, as  
amended)

EPA Reg.  
Number:  
73801-2

Date of  
Issuance:  
MAR 26 2013

Term of Issuance:  
Unconditional

Name of Pesticide Product:  
Permethrin Technical

Name and Address of Registrant (include ZIP Code):

Tagros Chemicals India, Ltd  
Jhaver Centre, Rajah Annamalai Building, 4<sup>th</sup> Floor, 59 Marshalls Road  
Egmore, Chennai 600 008, India

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others. This action is taken under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Registration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

**Terms of Registration**

1. EPA has registered the product listed above provided that the following change is made to the label before you release the product for shipment:
  - a. Revise the EPA Registration Number to read "EPA Registration Number 73801-2".

Signature of Approving Official:

Refer to page #2.

Richard Gebken, Product Manager (10)

Date:

MAR 26 2013

Page 2

EPA Registration No. 73801-2

2. You must submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data, and submit acceptable responses required for registration review of your product under FIFRA.
3. Two copies of the finished labeling must be submitted prior to releasing the product for shipment. If you fail to comply with all of the **Terms of Registration** stated above, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e) and/or automatically expire. Your release for shipment of the product constitutes your acceptance of these conditions.

A copy of your label stamped "Accepted" is enclosed for your records. If you have any questions concerning this action, please contact Linda A. DeLuise of my team at (703) 305-5428.

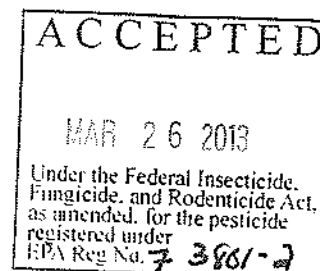
Sincerely yours,



Richard Gebken  
Product Manager (10)  
Insecticide Branch  
Registration Division (7505P)

# PERMETHRIN TECHNICAL

## AN INSECTICIDE FOR FORMULATING USE ONLY



### ACTIVE INGREDIENT:

\*Permethrin.....97.0%

OTHER INGREDIENTS:.....3.0%

Total 100.0%

\*cis/trans ratio: Max 40% (±) cis and Min 60% (±) trans.

### KEEP OUT OF REACH OF CHILDREN

## WARNING

First Aid	
If Inhaled:	Move the person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.
If Swallowed:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on Skin or Clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in Eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Have the product container with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies, or pesticide concerns), you may call 1-800-xxx-xxxx.	

### Manufactured by:

Tagros Chemicals India, Ltd.  
Jhaver Centre, Rajah Annamalai Building, 4<sup>th</sup> Floor  
72 Marshalls Road  
Egmore, Chennai  
600 008, India  
India

EPA Reg. No. 73801-2  
EPA Est. No. 73801-IND-002

Net Weight: 110 lbs

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

## WARNING

May be fatal if inhaled. May be fatal swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Do not breathe spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid contact with skin, eyes, or clothing. Wear long-sleeved shirt and long pants, socks, shoes, and gloves. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### Environmental Hazards

This product is extremely toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### Physical and Chemical Hazards

Do not use or store near heat or open flame.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

## STORAGE AND DISPOSAL

**Prohibitions:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**Pesticide Storage:** Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

**Container Handling: Nonrefillable container. Do not reuse or refill this container.** Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities

Formulators using this product are responsible for obtaining EPA registration for their formulated product which may be labeled for the use patterns as found listed on this label.

## ONLY FOR FORMULATION INTO AN INSECTICIDE/TERMITICIDE FOR THE FOLLOWING USES:

### Terrestrial Food:

Alfalfa  
Almonds  
Apples  
Artichokes  
Asparagus

Leafy vegetables (except Brassicas)<sup>3</sup>  
Mushrooms  
Onions (dry bulb & garlic)  
Papaya (FL only)  
Peaches, Nectarines

Asparagus Fern	Pears
Avocados	Peppers, bell
Cherries	Pistachios
Cole Crops <sup>1</sup>	Potatoes
Collards	Range Grass (NM only)
Cucurbit vegetables <sup>2</sup>	Soybeans
Eggplant	Sweet Corn
Field corn/popcorn/seed corn	Tomatoes
Filberts	Turnips
Horseradish	Walnuts

<sup>1</sup> Broccoli, Chinese broccoli, Brussels sprouts, cabbage, Chinese cabbage, cauliflower, Cavolo broccoli, and kohlrabi.

<sup>2</sup> Chayote (fruit) (*Sechium edule*); Chinese waxgourd (Chinese preserving melon) (*Bemincasa hispida*); Citron melon (*Citrullus lanatus* var. *citrifolius*); Cucumber (*Cucumis sativus*); Gherkin (*Cucumis anguria*); Gourd, edible (*Lagenaria* spp.) (includes hyotan, cucuzza); (*Luffa* spp.) (includes hechima, Chinese okra); (*Momordica* spp.) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber; Muskmelon (hybrids and/or cultivars of *Cucumis melo*) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Calus melon, and snake melon); Pumpkin (*Cucurbita* spp.); Squash, summer (*Cucurbita pepo* var. *melopepo*) (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); Squash, winter (*Cucurbita maxima*; *C. moshata*) (includes butternut squash, calabaza, hubbard squash) (*C. mixta*; *C. pepo*) (includes acorn squash, spaghetti squash); Watermelon (includes hybrids and/or varieties of *Citrullus* spp.).

<sup>3</sup> **Amaranth** (leafy amaranth, Chinese spinach, tampala); Arugula (*Roquette*); Cardoon; Celery; Celery, Chinese; Celtuce; Chervil; Chrysanthemum, edible-leaved and garland; Corn salad; Cress, garden; Cress, upland (yellow rocket, winter cress); Dandelion; Dock (sorrel); Endive (escarole); Fennel, Florence (finocchio); Lettuce, head and leaf; Orach; Parsley; Purslane, garden; Purslane, winter; Radicchio (red chicory); Rhubarb; Swiss chard.  
**Spinach** (including New Zealand and vine, Malabar spinach, Indian spinach).

**Indoors:** Wood and wood structure protection (against termites, beetles, etc.) and general insect pest control in buildings, structures, transports and their immediate surroundings, including but not limited to: agricultural (exterior surfaces of non-poultry facilities, interior and exterior surfaces of poultry houses), industrial and commercial buildings, houses, apartment buildings, laboratories, buses, greenhouses (non-food crops) and the non-food/feed areas of stores, warehouses, vessels, railcars, trucks, trailers, aircraft, schools, nursing homes, hospitals, (non-patient areas), restaurants, hotels, food manufacturing, processing and serving establishments, and landscapes in interior gardens.

**Terrestrial Outdoor (Non-Food) Uses:** Ornamentals including non-bearing fruit and nut trees grown for ornamental purposes, evergreens, ornamental trees, shrubs, vines, ground covers, lawn and turfgrass grown around industrial and commercial buildings, private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, sport fields and complexes, tennis courts, fence lines, storage sheds, barns, and their structures (fences, slabs, crawlspaces, foundations, porches, window frames, eaves, patios, garages) and refuse dumps.

**Greenhouses:** Indoor and outdoor (shade house) grown floral and foliage plants (non-food uses).

**Domestic Indoor/Outdoor (noncommercial homeowner uses):** Yards, lawns, turf, domestic ornamental plantings (trees, shrubs, flowers), ornamental fruit and nut trees around residential sites, porches, patios, foundations, steps, eaves, buildings (for termites, beetles, ticks, including ticks which carry Lyme disease and Rocky Mountain Spotted Fever, and directed pesticide control for ants, cockroaches, spiders and nuisance insect pests).

**Non-Crop:** Non-food producing areas such as farmyards, fuel storage areas, fence rows, rights-of-way (highway, railroad, utility), airports, recreation areas (fairgrounds, race tracks, tennis courts, fence rows, hedgerows, non-agricultural areas for directed pest control to pests (beehives, ant mounds, termite hills/nests).

**Domestic Farm Animals:** Cattle, Horses, Swine, Poultry.

**Companion Animals**

**General Outdoor Insect Control**

**Domestic Outdoor-Wood or Wood Structure Protection Treatments**

**Mosquito Control**

**Fiber Product Protection**

**Human Articles and Materials**

**Other Uses**

(1). Uses for which USEPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration; and

(2). Uses for experimental purposes that are in compliance with USEPA requirements.

**NOTE: Not for use to formulate products to be used:**

- In warehouses where raw or cured tobacco is stored.
- In warehouses while raw agricultural commodities for food or feed are stored.
- In greenhouses where crops for food or feed are grown.

## **CONDITIONS OF SALE AND LIMITATION OF WARRANTY**

Tagros Chemicals India, Ltd. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Tagros Chemicals India, Ltd. To the extent consistent with applicable law, Tagros Chemicals India, Ltd. shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. To the extent consistent with applicable law, the exclusive remedy of any Buyer or User of this product and any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort negligence, strict liability, or otherwise, shall not exceed the purchase price of this product. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. TAGROS CHEMICALS INDIA, LTD. MAKES NO WARRANTIES OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS  
REGISTRATION DIVISION (7505P)

February 20, 2013

**MEMORANDUM:**

Subject: Name of Pesticide Product: Permethrin Technical  
EPA Reg. No. /File Symbol: 73801-E  
DP Barcode: DP 406043  
Decision No.: 470207  
Action Code: R310  
PC Code: 109701 (Permethrin: 97%)

From: Byron T. Backus, Ph.D., Toxicologist  
Technical Review Branch  
Registration Division (7505P)

*Byron T. Backus*  
*Feb-20-2013*  
*Chashm*

To: Linda DeLuise/Richard Gebken RM 10  
Insecticide Branch  
Registration Division (7505P)

Registrant: TAGROS CHEMICALS INDIA LTD.

**FORMULATION FROM LABEL:**

Active Ingredient(s):	by wt.
109701 *Permethrin	97.0%
Other Ingredient(s):	3.0%
TOTAL	100.0%

\*cis/trans ratio: Max 40% ( $\pm$ ) cis and Min 60% ( $\pm$ ) trans.

**ACTION REQUESTED:** "New permethrin technical. Please review data."

**BACKGROUND:** The material received for review includes six (MRIDs 48954904 through 48954909) acute toxicity studies, a proposed label (with the signal word CAUTION), a data matrix (indicating that the registrant owns the six acute toxicity studies that are being used to satisfy these data requirements), a CSF (dated September 27, 2012), a cover letter (dated September 27, 2012), and an application for pesticide registration (dated September 17, 2012).

## COMMENTS AND RECOMMENDATIONS:

1. Five (MRIDs 48954904 through 48954908) of the acute toxicity studies have been classified as acceptable. The sixth (MRID 48954909, a dermal sensitization study) has been classified as unacceptable. Although there was no indication that the test material was a sensitizer, no positive control study (which should have been conducted by the same laboratory within 6 months of the submitted study) was included.
2. In lieu of an acceptable dermal sensitization study, TRB recommends precautionary labeling for this proposed product stating it is a dermal sensitizer.
3. Based on the results of the five acceptable studies (because the acute oral toxicity and inhalation toxicity studies indicate the product is in Toxicity Category II by these exposure routes, the signal word is WARNING, rather than the proposed CAUTION) and with the stipulation that labeling states that this proposed product is a dermal sensitizer, the following is the acute toxicity profile of EPA File Symbol 73801-E:

Acute oral toxicity	II	Acceptable	MRID 48954904
Acute dermal toxicity	III	Acceptable	MRID 48954905
Acute inhalation toxicity	II	Acceptable	MRID 48954906
Primary Eye irritation	III	Acceptable	MRID 48954907
Primary Dermal Irritation	IV	Acceptable	MRID 48954908
Dermal Sensitization	Positive	[in lieu of an acceptable negative study]	

4. Based on the acute toxicity profile as well as information from the Confidential Statement of Formula and the uses indicated on the proposed label, the following is the precautionary and first aid labeling for 73801-E as obtained from the TRB Label Review System:

**PRODUCT ID #:** 073801-00002

**PRODUCT NAME:** PERMETHRIN TECHNICAL

### PRECAUTIONARY STATEMENTS

**SIGNAL WORD:** WARNING

#### Hazards to Humans and Domestic Animals:

May be fatal if inhaled. May be fatal if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Do not breathe spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, socks, shoes, and gloves. [Wear protective eyewear.]\*

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

\*[Protective eyewear may be specified, if appropriate].

**First Aid:****If inhaled:**

- Move the person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

**If swallowed:**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

**If on skin:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

**If in eyes:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

5. The TRB Chemistry Team should review and accept the CSF dated September 27, 2012.

**Reviewer: Byron T. Backus, Ph.D.**  
**Risk Manager (EPA): 10**

**Date:** February 20, 2013

The following table is the Acute Toxicity Data Evaluation Record (DER) for the six acute toxicity studies submitted to support the proposed product, File Symbol 73801-E:

<b>1. DP BARCODE:</b> 406043				
<b>2. PC CODE:</b> 109701 (permethrin)				
<b>3. CURRENT DATE:</b> February 20, 2013				
<b>Test material:</b> Permethrin Technical (Cis – 51.19; Trans – 48.81), containing 94.09% active ingredient; described as a brown to yellow colored liquid				
<b>Study/Species/Lab Study # /Date</b>	<b>MRID</b>	<b>Results</b>	<b>Tox Cat</b>	<b>Core Grade</b>
Acute oral toxicity / rat International Institute of Biotechnology and Toxicology (IIBAT), Tamil Nadu, India / Study No. 08009/ June 23, 2008 / OCSPP 870.1100; OECD 423	48954904	LD <sub>50</sub> (F) > 300 mg/kg but < 2000 mg/kg. Dosage vehicle: corn oil (dilution not specified, max dose volume was 10 mL/kg); no deaths or signs of toxicity in 6F dosed at 300 mg/kg; all 3F dosed at 2000 mg/kg died within 4 hours. Gross necropsy; 2 at 2000 mg/kg had lungs which failed to collapse and a few reddish foci in stomach. No observed abnormalities in third animal dosed at 2000 mg/kg or in 6 dosed at 300 mg/kg.	II	A
Acute dermal toxicity / rat International Institute of Biotechnology and Toxicology (IIBAT), Tamil Nadu, India / Study No. 08038/ June 23, 2008 / OCSPP 870.1200; OECD 402	48954905	LD <sub>50</sub> > 2000 mg/kg (both sexes); no mortalities. Range-finding study with 1M & 1F: both exhibited tremors with clearing by day 1; main study: all 10 (5M, 5F) rats exhibited tremors which cleared by day 2. All gained wt day 0-7 and 7-14. No abnormalities at gross necropsy.	III	A
Acute inhalation toxicity / rat International Institute of Biotechnology and Toxicology (IIBAT), Tamil Nadu, India / Study No. 08041/ June 23, 2008 / OCSPP 870.1300; OECD 403	48954906	4-hr LC <sub>50</sub> > 0.24 mg/L (reported as maximum attainable concentration); MMAD = 1.79 µm; GSD = 2.02. No mortalities or signs of toxicity; no abnormalities at necropsy.	II	A

Primary eye irritation / rabbit International Institute of Biotechnology and Toxicology (IIBAT), Tamil Nadu, India / Study No. 08040/ June 23, 2008 / OCSPP 870.2400; OECD 405	48954907	0.1 mL instilled into 3 rabbit eyes; no corneal opacity or iritis. At 1 hr all 3 eyes had grade 2 redness; at 24 hrs 2/3 had grade 2 redness; no eyes positive for irritation at 48 hrs; all scores were zero at 72 hrs.	III	A
Primary dermal irritation / rabbit / International Institute of Biotechnology and Toxicology (IIBAT), Tamil Nadu, India / Study No. 08039/ June 23, 2008 / OCSPP 870.2500; OECD 404	48954908	0.5 mL applied to 6 cm <sup>2</sup> with 4-hr semiocluded exposure. Three rabbits exposed. All scores (1, 24, 48 and 72 hrs) were zero. PDII = 0.0	IV	A
Dermal sensitization / guinea pig (Buehler method) / International Institute of Biotechnology and Toxicology (IIBAT), Tamil Nadu, India / Study No. 08042/ June 23, 2008 / OCSPP 870.2600; OECD 406	48954909	Undiluted test material (2000 mg) used for induction (6-hrs on days 0, 7 & 14) and challenge (exposure to 500 mg for 6 hrs on day 28). There were 20 induced and 10 control animals. All scores were zero at 24 and 48 hrs following the end of challenge exposure. No <b>positive control study</b>	n/d	U

**Core Grade Key:** A =Acceptable, S = Supplementary, U = Unacceptable, D = Data Gap, n/d = “not determined”, n/a = “not applicable”



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS  
REGISTRATION DIVISION (7505P)

DATE OUT: 14 / MARCH / 2013

SUBJECT: **PRODUCT CHEMISTRY REVIEW OF MP [X] EP [ ]**  
DP BARCODE No.: D406042 EPA File Symbol No.: 73801-E  
PRODUCT NAME: Permethrin Technical  
COMPANY: Tagros Chemicals India Ltd.  
FOOD USE [X] INTEGRATED FORMULATION [X]  
PCC: 109701 Decision No. 470207  
ACTION CODE: R310 Pesticidal use: Insecticide

FROM: Hari Mukhoty, DVM, PhD  
Product Chemistry Team  
Technical Review Branch / RD (7505P)

*Handwritten signature and date:* 8/2/13

TO: Linda DeLuise / Richard Gebken, RM 10  
Insecticide Branch / RD (7505P)

**INTRODUCTION:**

The Registrant has submitted a basic CSF (dated: 09/27/2012) for a proposed TGAI/MUP, and has also proposed a product specific label for registration of the aforesaid product under EPA File symbol 73801-E. The product chemistry data have been submitted under MRIDs: 489549-01, -02, and 03.

The aforesaid MUP is manufactured by Tagros Chemicals India, Ltd. in India for Tagros Chemicals India, Ltd in Chennai, India. The Agent in USA is Biologic, Inc.

Label text indicates that this proposed MUP is intended to be formulated into end-use products with food uses & other products with uses approved by EPA.

TRB has been requested to evaluate the product chemistry data required for the registration of the proposed MUP.

**SUMMARY OF FINDINGS:**

1. The proposed TGAI/MUP contains the active ingredient: Fomesafen (97.0%).
2. The overall mean of the active ingredient from the five batch analysis is 97.14% [MRID: 489549-02, Page 18].
3. The proposed nominal concentration of the active ingredient in the MUP is 97.00%. The nominal concentration of the active ingredient matches with the label claim. This is in compliance with PR Notice 91-2. The certified limits of the proposed active ingredient and the associated impurities are described in page 23 of MRID: 489549-01 & in the proposed CSF dated 09/27/2012.

**DP BARCODE No.:** 406042 **EPA File Symbol No.:** 73801-E **PRODUCT NAME:** Permethrin Technical

4. The CSF of the proposed TGA/MUP is filled out completely and correctly. This CSF has been reviewed by I.I.A. Branch on 10/02/2012 and they have concluded that it contains active ingredient and impurities only.

5. The product chemistry data submitted for Group A corresponding to guidelines 830.1550 (product identity and composition), 830.1600 (description of materials used to produce the product), 830.1620 (description of production process), 830.1670 (discussion of formation of impurities), 830.1750 (certified limits) satisfy the product chemistry data requirements of 40 CFR §158.320, 158.325, 158.330, 158.340, and 158.350 respectively for the proposed formulation [MRID: 489549-01 & -02].

6. Analytical methods used to identify the active ingredient and its associated impurities are: (a) GC-FID analytical method following CIPAC, Volume M, -331/TC/M2/- method (b) using LC-MS/MS method, (c) HPLC method using DAD, (d). Liquid chromatograph using UV detector and (e) Karl Fischer method to determine moisture [MRID: 489549-02, Page 13].

Similar analytical techniques were used for validation including the linearity range, method precision, assay accuracy and LOQ.

Similar analytical techniques can also be applied for Enforcement Analytical Method.

7. Product chemistry Group A and Group B data, with the exception of Storage Stability (830.6317) and Corrosion Characteristics (830.6320) data requirements are satisfied [MRIDs: 489549-01, -02 & -03].

8. The registrant did not make any comments with respect to the toxicological significance of associated impurities in proposed TGA/MUP.

#### **CONCLUSIONS:**

1. TRB has reviewed the CSF (dated: 09/27/2012) for the proposed TGA/MUP and has found it to be acceptable.

2. Product chemistry Group A and Group B data, with the exception of Storage Stability (830.6317) and Corrosion Characteristics (830.6320) data requirements are satisfied [MRIDs: 489549-01, -02 & -03].

3. The proposed label was screened as it pertains to the product chemistry requirements. The final review of the proposed label and uses are the purview of the PM team.

DP BARCODE No.: 406042 EPA File Symbol No.: 73801-E PRODUCT NAME: Permethrin Technical

PRODUCT CHEMISTRY DATA (SERIES 830 Group A)

Group A	Data Required Fulfilled	MRID No.
830.1550. Chemical Identity (same as in Product CSF dated 09/27/2012)	A	489549-01
830.1600. Beginning Materials	A	"
830.1620. Production process	A	"
830.1650. Formulation process	NA	
830.1670. Discussion of Impurities	A	"
830.1700. Preliminary Analysis	A	489549-02
830.1750. Certified Limits	A	489549-01
830.1800. Enforcement Analytical Method	A	489549-02

A = Acceptable NA = Not Applicable

DP BARCODE No.: 406042 EPA File Symbol No.: 73801-E PRODUCT NAME: Permethrin Technical

Group – B	<u>Data Require d Fulfilled</u>	<u>Value or Qualitat. Descrip.</u>	<u>MRID No.</u>
830.6302. Color	A	Grayish white	489549-03
830.6303. Physical State	A	Amorphous solid	"
830.6304. Odor	A	Slight Aniseed	"
830.6313. Stability to normal and elevated temp, metals and metal ions	A	Stable when exposed to normal & elevated temp and metals & metal ions	489549-03
830.6314. Oxidation/Reduction action – Chemical incompatibility	NA	Does not contain oxidizing /reducing properties	Data matrix
830.6315. Flammability	NA	Not Flammable	Data matrix
830.6316. Explodability	NA	Not potentially explosive.	Data Matrix
830.6317. Storage stability	G	In progress	
830.6319. Miscibility	NA	Product does not use petroleum solvents	Data matrix
830.6320. Corrosion Characteristics	G	In progress	
830.7200. Melting point	A	33.5 – 36.0°C	489549-03
830.7220. Boiling point	NA	The product is solid	
830.7050. UV/visible light absorption	A	Max pH<2 =204 +273 nm. Max Methanol= 206 +272 nm. Max pH>10 =220 +272	"
830.7100 Viscosity	NA	Product is solid	Data matrix
830.7370. Dissociation Constant	NA	No acidic or basic functionality in molecule	Data matrix

830.7550. Partition Coefficient	A	Cis Log Kow = 6.42 trans Log Kow =5.89	489549-03
830.7950. Vapor Pressure	A	$1.7 \times 10^{-02}$ Pa	"
830.7840. Solubility	A	In water = 0.03 µg/mL; pH 4 Buffer =0.04 µg/mL; pH 7 Buffer= 0.06µg/mL; pH 9 Buffer = 0.10 µg/mL @ 20°C	"
830.7000. pH	A	6.54	"
830.7300. Density	A	1.2244	"

**Explanations:** A = Acceptable, NA = Not applicable, G = Data gap

\*Pgs 30-54 Manufacturing process information may be entitled to confidential treatment\*

# Group B - Check List for 73801-E

DP BARCODE No.: 376518 EPA File Symbol No.: 83851-RA PRODUCT NAME: Amitide imazapyr  
Technical 98%

Group - B	Data Required d Fulfilled	Value or Qualitat. Descrip.	MRID No.
830.6302. Color ✓	A	Off-white	479398-03, -04
830.6303. Physical State ✓	A	Solid Powder	"
830.6304. Odor ✓	A	Mild	"
830.6313. Stability to normal and elevated temp, metals and metal ions. (requesting waiver because test substance will not be in contact with metal & metal ions) ✓	A	Stable at normal & elevated temp.	"
830-6314. Oxidation/Reduction action - Chemical incompatibility ✓	A	Reactions with water: hard, dry paste; Ammonium Phosphate: paste thickened; Iron powder: no change; Potassium Permanganate: mixture appeared dry & puffy; Gasoline: paste became thickened	"
830.6315. Flammability ✓ X Solid N/A	A	Not Flammable	"
830.6316. Explodability	A	Not explosive chemicals.	"
830.6317. Storage stability X	A	Stable	"
830.6319. Miscibility ✓ N/A	N/A	Formulated MUP	"
830.6320. Corrosion Characteristics X	A	Not corrosive	"
830.7200. Melting point ✓	A	171° C	"
830.7220. Boiling point X	N/A		"

830.7050. UV/visible light absorption ✓	A	Showing max absorbance at 1.734 AU, no peak, & 0.308 AU in neutral, acidic & basic solutions respectively	"
830.7100 Viscosity ✓ NOT APPL	N/A	SOLID	"
830.7370. Dissociation Constant	A	pKa = 1.81 at 25°C	"
830.7550. Partition Coefficient ✓	A	Log Kow = 0.22	"
830.7950. Vapor Pressure ✓	A	$1.79 \times 10^{-11}$ 25° C	"
830.7840. Solubility ✓	A <u>organic</u>	In water = 11.3 g/L, In methanol = 126.6 g/L, In n-Octanol = 6.999 g/L, In Hexane = 0.00565 g/L	"
830.7000. pH ✓	A	2.69 / 3	"
830.7300. Density ✓	A	Tap density = 0.592 g/cm <sup>3</sup>	"

**Explanations:** A = Acceptable, N/A = Not applicable, G = Data gap

*obsolete*

# PERMETHRIN TECHNICAL

## AN INSECTICIDE FOR FORMULATING USE ONLY

### ACTIVE INGREDIENT:

*Permethrin.....	97.0%
OTHER INGREDIENTS:.....	3.0%
Total	100.0%

\*cis/trans ratio: Max 40% ( $\pm$ ) cis and Min 60% ( $\pm$ ) trans.

### KEEP OUT OF REACH OF CHILDREN

## CAUTION

First Aid	
If Swallowed:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on Skin or Clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in Eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Have the product container with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies, or pesticide concerns), you may call 1-800-xxx-xxxx.	

### Manufactured by:

Tagros Chemicals India, Ltd.  
Jhaver Centre, Rajah Annamalai Building, 4<sup>th</sup> Floor  
72 Marshalls Road  
Egmore, Chennai  
600 008, India  
India

EPA Reg. No. 73801-X  
EPA Est. No. 73801-IND-002

Net Weight: 110 lbs

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

## CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Remove contaminated clothing before reuse.

### Environmental Hazards

This product is extremely toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### Physical and Chemical Hazards

Do not use or store near heat or open flame.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

## STORAGE AND DISPOSAL

**Prohibitions:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**Pesticide Storage:** Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

**Container Handling: Nonrefillable container. Do not reuse or refill this container.** Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities

Formulators using this product are responsible for obtaining EPA registration for their formulated product which may be labeled for the use patterns as found listed on this label.

## ONLY FOR FORMULATION INTO AN INSECTICIDE/TERMITICIDE FOR THE FOLLOWING USES:

### Terrestrial Food:

Alfalfa  
Almonds  
Apples  
Artichokes  
Asparagus  
Asparagus Fern  
Avocados  
Cherries  
Cole Crops<sup>1</sup>

Leafy vegetables (except Brassicas)<sup>3</sup>  
Mushrooms  
Onions (dry bulb & garlic)  
Papaya (FL only)  
Peaches, Nectarines  
Pears  
Peppers, bell  
Pistachios  
Potatoes

Collards	Range Grass (NM only)
Cucurbit vegetables <sup>2</sup>	Soybeans
Eggplant	Sweet Corn
Field corn/popcorn/seed corn	Tomatoes
Filberts	Turnips
Horseradish	Walnuts

<sup>1</sup> Broccoli, Chinese broccoli, Brussels sprouts, cabbage, Chinese cabbage, cauliflower, Cavolo broccoli, and kohlrabi.

<sup>2</sup> Chayote (fruit) (*Sechium edule*); Chinese waxgourd (Chinese preserving melon) (*Bemincasa hispida*); Citron melon (*Citrullus lanatus* var. *citroides*); Cucumber (*Cucumis sativus*); Gherkin (*Cucumis anguria*); Gourd, edible (*Lagenaria* spp.) (includes hyotan, cucuzza); (*Luffa* spp.) (includes hechima, Chinese okra); (*Momordica* spp.) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber; Muskmelon (hybrids and/or cultivars of *Cucumis melo*) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Calus melon, and snake melon); Pumpkin (*Cucurbita* spp.); Squash, summer (*Cucurbita pepo* var. *mejopepo*) (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); Squash, winter (*Cucurbita maxima*; *C. moshata*) (includes butternut squash, calabaza, hubbard squash) (*C. mixta*; *C. pepo*) (includes acorn squash, spaghetti squash); Watermelon (includes hybrids and/or varieties of *Citrullus* spp.).

<sup>3</sup> **Amaranth** (leafy amaranth, Chinese spinach, tampala); Arugula (*Roquette*); Cardoon; Celery; Celery, Chinese; Celtuce; Chervil; Chrysanthemum, edible-leaved and garland; Corn salad; Cress, garden; Cress, upland (yellow rocket, winter cress); Dandelion; Dock (sorrel); Endive (escarole); Fennel, Florence (finocchio); Lettuce, head and leaf; Orach; Parsley; Purslane, garden; Purslane, winter; Radicchio (red chicory); Rhubarb; Swiss chard.  
**Spinach** (including New Zealand and vine, Malabar spinach, Indian spinach).

**Indoors:** Wood and wood structure protection (against termites, beetles, etc.) and general insect pest control in buildings, structures, transports and their immediate surroundings, including but not limited to: agricultural (exterior surfaces of non-poultry facilities, interior and exterior surfaces of poultry houses), industrial and commercial buildings, houses, apartment buildings, laboratories, buses, greenhouses (non-food crops) and the non-food/feed areas of stores, warehouses, vessels, railcars, trucks, trailers, aircraft, schools, nursing homes, hospitals, (non-patient areas), restaurants, hotels, food manufacturing, processing and serving establishments, and landscapes in interior gardens.

**Terrestrial Outdoor (Non-Food) Uses:** Ornamentals including non-bearing fruit and nut trees grown for ornamental purposes, evergreens, ornamental trees, shrubs, vines, ground covers, lawn and turfgrass grown around industrial and commercial buildings, private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, sport fields and complexes, tennis courts, fence lines, storage sheds, barns, and their structures (fences, slabs, crawlspaces, foundations, porches, window frames, eaves, patios, garages) and refuse dumps.

**Greenhouses:** Indoor and outdoor (shade house) grown floral and foliage plants (non-food uses).

**Domestic Indoor/Outdoor (noncommercial homeowner uses):** Yards, lawns, turf, domestic ornamental plantings (trees, shrubs, flowers), ornamental fruit and nut trees around residential sites, porches, patios, foundations, steps, eaves, buildings (for termites, beetles, ticks, including ticks which carry Lyme disease and Rocky Mountain Spotted Fever, and directed pesticide control for ants, cockroaches, spiders and nuisance insect pests).

**Non-Crop:** Non-food producing areas such as farmyards, fuel storage areas, fence rows, rights-of-way (highway, railroad, utility), airports, recreation areas (fairgrounds, race tracks, tennis courts, fence rows,

hedgerows, non-agricultural areas for directed pest control to pests (beehives, ant mounds, termite hills/nests).

**Domestic Farm Animals:** Cattle, Horses, Swine, Poultry.

**Companion Animals**

**General Outdoor Insect Control**

**Domestic Outdoor-Wood or Wood Structure Protection Treatments**

**Mosquito Control**

**Fiber Product Protection**

**Human Articles and Materials**

**Other Uses**

(1). Uses for which USEPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration; and

(2). Uses for experimental purposes that are in compliance with USEPA requirements.

**NOTE: Not for use to formulate products to be used:**

- In warehouses where raw or cured tobacco is stored.
- In warehouses where raw agricultural commodities for food or feed are stored.
- In greenhouses where crops for food or feed are grown.

## **CONDITIONS OF SALE AND LIMITATION OF WARRANTY**

Tagros Chemicals India, Ltd. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Tagros Chemicals India, Ltd. To the extent consistent with applicable law, Tagros Chemicals India, Ltd. shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. To the extent consistent with applicable law, the exclusive remedy of any Buyer or User of this product and any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort negligence, strict liability, or otherwise, shall not exceed the purchase price of this product. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. TAGROS CHEMICALS INDIA, LTD. MAKES NO WARRANTIES OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
Amendment  
☒ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number 73801-XXX	2. EPA Product Manager R. Gebken	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product Name Permethrin Technical	PM# 10	
5. Name and Address of Applicant (Include ZIP Code) Tagros Chemicals India Limited c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

This application for a new pesticide product is submitted under the Formulator's Exemption provision of FIFRA section 3(c)(2)(D) and will fall within the category on Table 4 - Registration Division: New Products, EPA No. R310; CR No. 46. The PRIA fee for this application is \$4,807.

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
* Certification must be submitted				<input type="checkbox"/> Plastic	
If "Yes" Unit Packaging wgt. No. per container		If "Yes" Package wgt. No. per container		<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 55 gallon		5. Location of Label Directions <input checked="" type="checkbox"/> on label	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Jane M. Miller		Title Agent		Telephone No. (Include Area Code) 203-746-1200	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature 		3. Title Agent			
4. Typed Name Jane M. Miller		5. Date September 17, 2012			

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September 27, 2012

Mr. Richard Gebken  
Product Manager, PM Team 10  
Insecticide Branch  
Registration Division (7505P)  
Office of Pesticide Programs  
U.S. Environmental Protection Agency  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, D.C. 20460

SUBJECT: "Permethrin Technical"; EPA File Symbol: 73801-XXX.

Dear Mr. Gebken:

With this letter, we are submitting an application on behalf of Tagros Chemicals India, Ltd. for the registration of "Permethrin Technical". Please be advised that this application is submitted as a "me-too" registration, and is supported by the cite-all option in accordance with FIFRA 3(c)(1)(D).

In order for the Agency to make its determination of "substantial similarity", and to facilitate the processing of this application, please find the following enclosures:

**Volume 1 – Administrative Materials:**

- Transmittal Letter
- Application for Pesticide Registration; (EPA Form 8570-1).
- Certification with Respect to Citation of Data (EPA Form 8570-34).
- Data Matrix; (EPA Form 8570-35).
- Confidential Statement of Formula; (EPA Form 8570-4).
- Draft Labeling; (Five Copies).

**Volume 2 – Manufacturing Process (Three Copies):**

- Product Identity and Composition; (OPPTS 830.1550).
- Description of Materials Used to Produce the Product; (OPPTS 830.1600).
- Description of Production Process; (OPPTS 830.1620).
- Discussion of Formation of Impurities; (OPPTS 830.1670).

**Volume 3 – Five-Batch Analysis (Three Copies):**

- Preliminary Analysis; (OTTPS 830.1700).
- Certified Limits; (OPPTS 830.1750).
- Enforcement Analytical Method; (OPPTS 830.1800).

**Volume 4 – Physical and Chemical Properties (Three Copies):**

- Color; (OPPTS 830.6302).
- Physical State; (OPPTS 830.6303).
- Odor; (OPPTS 830.6304).
- Melting Point; (OPPTS 830.7200).
- Density; (OPPTS 830.7300).
- Water Solubility; (OPPTS 830.7840/7860).
- Octanol/Water Partition Coefficient; (OPPTS 830.7550/7570).
- pH; (OPPTS 830.7000).
- Stability to Temperatures, Metals & Metal Ions; (OPPTS 830.6313).
- UV/Visible Absorption; (OPPTS 830.7050).
- Vapor Pressure; (OPPTS 830.7950).

**Volume 5 – Acute Oral Toxicity (Three Copies):**

- Acute Oral Toxicity Study with Permethrin Technical (50:50) in Wistar Rats (OPPTS 870.1100).

**Volume 6 – Acute Dermal Toxicity (Three Copies):**

- Acute Dermal Toxicity Study with Permethrin Technical (50:50) in Wistar Rats (OPPTS 870.1200).

**Volume 7 – Acute Inhalation Toxicity (Three Copies):**

- Acute Inhalation Toxicity Study with Permethrin Technical (50:50) in Wistar Rats (OPPTS 870.1300).

**Volume 8 – Acute Eye Irritation (Three Copies):**

- Acute Eye Irritation/Corrosion of Permethrin Technical (50:50) in New Zealand White Rabbits (OPPTS 870.2400).

**Volume 9 – Acute Dermal Irritation (Three Copies):**

- Acute Dermal Irritation/Corrosion of Permethrin Technical (50:50) in New Zealand White Rabbits (opts 870.2500).

**Volume 10 – Skin Sensitization:**

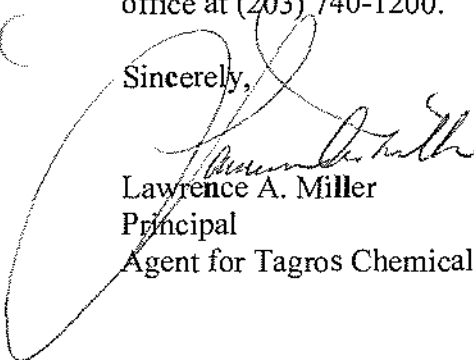
- Skin Sensitization Potential of Permethrin Technical (50:50) in Guinea Pigs (OPPTS 870.2600).

We believe that the above items of data are sufficient to support this application for a technical grade active ingredient. Any data requirements deemed as irrelevant to this application are indicated by the appropriate footnotes in the data matrix.

This application for a new pesticide product will fall within the category on Table 4-Registration Division New Products, EPA No. R310; CR No. 46. The PRIA Fee for this application is \$4,807.00.

Should you have any questions or otherwise wish to reach me, please feel free to contact my office at (203) 740-1200.

Sincerely,



Lawrence A. Miller

Principal

Agent for Tagros Chemicals India, Ltd.



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**401 M Street, S.W.**  
**WASHINGTON, D.C. 20460**

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**Certification with Respect to Citation of Data**

Applicant's/Registrant's Name, Address, and Telephone Number Tagros Chemicals India Limited c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804	EPA Registration Number/File Symbol 73801-X
Active Ingredient(s) and/or representative test compound(s) Permethrin	Date September 17, 2012
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) Terrestrial Non-Food, Terrestrial Food, Indoor, Domestic Outdoor	Product Name Permethrin Technical

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT (Check one method only)**

☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

☒ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☒ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

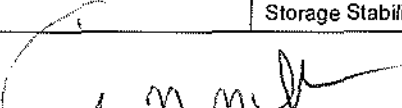
Signature 	Date Oct. 4, 2012	Typed or Printed Name and Title Jane M. Miller
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**DATA MATRIX**

Date September 17, 2012			EPA Reg. No./File Symbol 73801-X		Page 1 of 26
Applicant's/Registrant's Name & Address			Product:		
Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830-X550	Product Identity and Composition		TAGROS CHEMICALS INDIA, LTD.	Own	
830.1600	Description of Materials Used to Produce the Product		TAGROS CHEMICALS INDIA, LTD.	Own	
830.1620	Description of Production Process		TAGROS CHEMICALS INDIA, LTD.	Own	
830-X650	Description of Formulation Process				1
830.1670	Discussion of Formation of Impurities		TAGROS CHEMICALS INDIA, LTD.	Own	
830.1700	Preliminary Analysis		TAGROS CHEMICALS INDIA, LTD.	Own	
830.1750	Certified Limits		TAGROS CHEMICALS INDIA, LTD.	Own	
830.1800	Enforcement Analytical Method		TAGROS CHEMICALS INDIA, LTD.	Own	
830.1900	Submittal of Samples				2
830.6302	Color		TAGROS CHEMICALS INDIA, LTD.	Own	
830.6303	Physical State		TAGROS CHEMICALS INDIA, LTD.	Own	
830.6304	Odor		TAGROS CHEMICALS INDIA, LTD.	Own	
830.6313	Stability to normal & elevated temp., metal, metal ion		TAGROS CHEMICALS INDIA, LTD.	Own	
830.6314	Oxidation/Reduction				3
830.6315	Flammability / Flame Extension				4
830.6316	Explosibility				5
830.6317	Storage Stability				6
Signature 			Name and Title		Date
			Jane M. Miller, Agent		09/17/2012

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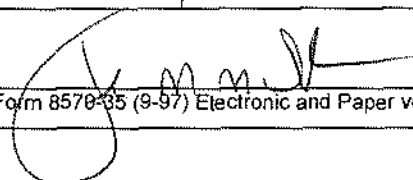
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## DATA MATRIX

Date September 17, 2012			EPA Reg. No./File Symbol 73801-X		Page 2 of 26
Applicant's/Registrant's Name & Address			Product		
Tagros Chemicals India, Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6319	Miscibility				7
830.6320	Corrosion Characteristics				8
830.6321	Dielectric Breakdown Voltage				9
830.7000	pH		TAGROS CHEMICALS INDIA, LTD.	Dwn	
830.7050	UV/Visible Spectrum		TAGROS CHEMICALS INDIA, LTD.	Own	
830.7100	Viscosity				10
830.7200	Melting Point/ Melting Range		TAGROS CHEMICALS INDIA, LTD.	Own	
830.7300	Density		TAGROS CHEMICALS INDIA, LTD.	Own	
830.7370	Dissociation Constant				11
830.7570	Octanol/Water Partition Coefficient		TAGROS CHEMICALS INDIA, LTD.	Own	
830.7840/60	Water Solubility		TAGROS CHEMICALS INDIA, LTD.	Own	
830.7950	Vapor Pressure		TAGROS CHEMICALS INDIA, LTD.	Own	
870.1100	Acute Oral Toxicity		TAGROS CHEMICALS INDIA, LTD.	Own	
870.1200	Acute Dermal Toxicity		TAGROS CHEMICALS INDIA, LTD.	Own	
870.1300	Acute Inhalation Toxicity		TAGROS CHEMICALS INDIA, LTD.	Own	
870.2400	Acute Eye Irritation		TAGROS CHEMICALS INDIA, LTD.	Own	
870.2500	Acute Dermal Irritation		TAGROS CHEMICALS INDIA, LTD.	Own	
Signature 			Name and Title		Date
			Jane M. Miller, Agent		09/17/2012

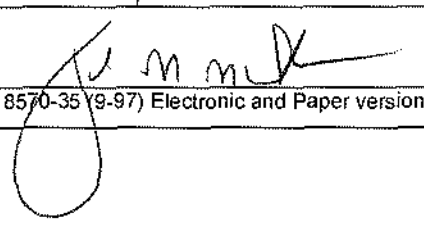
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**DATA MATRIX**

Date September 17, 2012			EPA Reg. No./File Symbol 73801-X		Page 3 of 26
Applicant's/Registrant's Name & Address			Product:		
Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2600	Skin Sensitization		TAGROS CHEMICALS INDIA, LTD.	Own	
Remaining data requirements including Acute Toxicity, Ecological Effects, Environmental Fate, and all other generic data requirements required for the addition of Aricultural uses, including task forces.	CITE-ALL		Bonide Products	PAY	
			Salem, VA		
			Coopers Animal Health	PAY	
			Mundelein, IL		
			The Scotts Company	PAY	
			Marysville, OH		
			L. Perrigo Company	PAY	
			Allegan, MI		
			HOMS LLC	PAY	
			Goodyear, AZ		
		Agsaver LLC	PAY		
		Washington, DC			
Signature			Name and Title		Date
			Jane M. Miller, Agent		09/17/2012

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**DATA MATRIX**

Date September 17, 2012 EPA Reg. No./File Symbol 73801-X Page 4 of 26

Applicant's/Registrant's Name & Address

Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804

Product

Permethrin Technical

Ingredient Permethrin

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		FMC Corp.	PAY	
			Philadelphia, PA		
			Nott Manufacturing	PAY	
			Coram, NY		
			Bayer Advanced	PAY	
			Research Triangle Park, NC		
			Realex	PAY	
			St. Louis, MO		
			Chase Products	PAY	
			Maywood, IL		
			Prentiss, Inc.	PAY	
			Floral Park, NY		
			Pfizer Inc.	PAY	
			Kalamazoo, MI		
			Southern Ag. Insecticides	PAY	
			Palmetto, FL		

Signature

*Jane M. Miller*

Name and Title

Jane M. Miller, Agent

Date

09/17/2012

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**DATA MATRIX**

Date September 17, 2012			EPA Reg. No./File Symbol 73801-X		Page 5 of 26
Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Product Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		McLaughlin Gormley King Co.	PAY	
			Minneapolis, MN		
			PBI/Gordon Corp.	PAY	
			Kansas City, MO		
			Virbac AH	PAY	
			Fort Worth, TX		
			Wellmark International	PAY	
			Schaumburg, IL		
			W.C. Miller Chem. Co.	PAY	
			Hovston, TX		
			Lynwood Labs.	PAY	
			Needham, MA		
			ABC Compounding Co.	PAY	
			Atlanta, GA		
			Boehringer Ingelheim Vetmedica	PAY	
			Elwood, KS		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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**401 M Street, S.W.**  
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**DATA MATRIX**

Date September 17, 2012		EPA Reg. No./File Symbol 73801-X		Page 6 of 30	
Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obluse Hill Road Brookfield, CT 06804		Product Permethrin Technical			
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Pet Chemicals	PAY	
			Memphis, TN		
			S.C. Johnson & Son	PAY	
			Racine, WI		
			Cessco Inc.	PAY	
			Johns Island, SC		
			IQ Products	PAY	
			Houston, TX		
			Voluntary Purchasing Group	PAY	
			Paino, TX		
			Clarke Mosquito Control	PAY	
			Roselle, IL		
			Syngenta Crop Protection, Inc.	PAY	
			Greensboro, NC		
			Safeguard Chemical Corp.	PAY	
			Greeley, CO		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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**DATA MATRIX**

Date September 17, 2012			EPA Reg. No./File Symbol 73801-X		Page 7 of 26
Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Product Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Sunniland Corp.	PAY	
			Sanford, FL		
			Chemsico	PAY	
			St. Louis, MO		
			Syngenta Crop Protection	PAY	
			Greensboro, NC		
			Bayer Healthcare, LLC	PAY	
			Shawnee Mission, KS		
			Speer Products Inc.	PAY	
			Memphis, TN		
			Gil MFG Inc.	PAY	
			Montgomery, AL		
			Sandoz Agro Inc.	PAY	
			Des Plains, IL		
			Pyranha Inc.	PAY	
			Houston, TX		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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**DATA MATRIX**

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Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Product Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Winfield Solutions, LLC	PAY	
			St. Paul, MN		
			Aerochem Inc.	PAY	
			Raymond, MS		
			Senoret Chemical Co., Inc.	PAY	
			Silver Springs, MD		
			N.C.P. of NW Ohio	PAY	
			Toledo, OH		
			Sumitomo Chemical Co.	PAY	
			Baltimore, MD		
			Safer Inc.	PAY	
			Lititz, PA		
			CTX-Cenol Inc.	PAY	
			Miami, FL		
			Insecta Marketing Inc.	PAY	
			Oakland Park, FL		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804

Product Permethrin Technical

Ingredient Permethrin

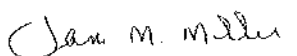
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Burlington Scientific Corp.	PAY	
			Farmingdale, NY		
			K-G Packaging	PAY	
			Hartford, WI		
			Sherwin Williams Div.	PAY	
			Cleveland, OH		
			Coulston Products Inc.	PAY	
			Rockville, MD		
			BASF Sparks	PAY	
			Research Triangle Park, NC		
			Chemtura Corporation	PAY	
			Middlebury, CT		
			Arizona Chemical Group	PAY	
			Mesa, AZ		
			Lineguard, Inc.	PAY	
			Elyria, OH		

Signature *Jane M. Miller* Name and Title Jane M. Miller, Agent Date 09/17/2012

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Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Product Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Spray Drift Task Force	PAY	
			Washington, DC		
			Ecto Development Corp.	PAY	
			Blue Springs, MO		
			Sherwin-Williams Diversified Brands	PAY	
			Cleveland, OH		
			Bengal Products	PAY	
			Baton Rouge, LA		
			United Phosphorous	PAY	
			King of Prussia, PA		
			Riap Chemical Factory	PAY	
			Bovee, OH		
			Outdoor Residential Exposure Task	PAY	
			Washington, DC		
			Agricultural Re-Entry Task Force	PAY	
			Washington, DC		
Signature 			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Product Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Plexus Services	PAY	
			Altamonte Springs, FL		
			Star Horse Products	PAY	
			Goodyear, AZ		
			Valent Biosciences Corp.	PAY	
			Libertyville, IL		
			Gharda Chemicals Ltd.	PAY	
			Sarasota, FL		
			A.N.T.S. Research & Dev.	PAY	
			Breckenridge, TX		
			IDC	PAY	
			Altamonte Springs, FL		
			NIX, Inc.	PAY	
			Washington, DC		
			Travel Medicine	PAY	
			Northampton, MA		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Product Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Bio-Planet Products	PAY	
			Honolulu, HI		
			Insect Shield	PAY	
			Greensboro, NC		
			Arch Wood Protection	PAY	
			Atlanta, GA		
			Farnam Companies	PAY	
			Phoenix, AZ		
			Bayer Environmental Science	PAY	
			Research Triangle Park, NC		
			Univar USA, Inc.	PAY	
			Austin, TX		
			W.F. Young, Inc.	PAY	
			East Longmeadow, MA		
			Happy Jack, Inc.	PAY	
			Show Hill, NC		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Summit Chemical Co.	PAY	
			Baltimore, MD		
			Octavius Hunt Limited	PAY	
			Woodbridge, VA		
			Sungro Chemicals, Inc.	PAY	
			Los Angeles, CA		
			Bio-Derm Laboratories, Inc.	PAY	
			Carrollton, TX		
			Mitsui Chemicals America, Inc.	PAY	
			Valdosta, GA		
			Y-Tex Corp.	PAY	
			Cody, WY		
			LHB Industries	PAY	
			St. Louis, MO		
			Questvapco Corp.	PAY	
			Brenham, TX		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd: c/o Biologic, Inc. 115 Obluse Hill Road Brookfield, CT 06804			Product Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		PM Resources, Inc.	PAY	
			Bridgeport, MO		
			Gharda USA, Inc.	PAY	
			Newtown, PA		
			LG Life Sciences, Ltd.	PAY	
			Clifton, VA		
			Whitmore Micro-Gen	PAY	
			St. Louis, MO		
			Pro Products	PAY	
			Mahopac, NY		
			Univar USA, Inc.	PAY	
			Seattle, WA		
			Osmose New Zealand	PAY	
			Buffalo, NY		
			Regguide	PAY	
			Hillsboro, MO		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Product Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Value Garden Supply	PAY	
			St. Joseph, MO		
			Green Light Co.	PAY	
			San Antonio, TX		
			IBC Manufacturing	PAY	
			Memphis, TN		
			Fuller System	PAY	
			Woburn, MA		
			Sergeant's Pet Care Products	PAY	
			Omaha, NE		
			The Hartz Mountain Co.	PAY	
			Secaucus, NJ		
			Amvac	PAY	
			Newport Beach, CA		
			Fiebing Company	PAY	
			Milwaukee, WI		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Product Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Palm Beach Laboratories	PAY	
			Baltimore, MD		
			BASF Corp.	PAY	
			Fiorham Park, NJ		
			Chem-Tech Ltd.	PAY	
			Des Moines, IA		
			Control Solutions, Inc.	PAY	
			Pasadena, TX		
			Valent USA	PAY	
			Walnut Creek, CA		
			Arysta Lifescience North America	PAY	
			Cary, NC		
			Premium Environmental Products	PAY	
			Plantsville, CT		
			Sapstain Industry Group	PAY	
			Titusville, NJ		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd. c/o Biologic, Inc. 115 Obluse Hill Road Brookfield, CT 06804			Product Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Non-Dietary Exposure TF	PAY	
			Washington, DC		
			FIFRA Endangered Species TF	PAY	
			Washington, DC		
			The Bug Stomper of LA	PAY	
			Springhill, LA		
			Product & Regulatory Assoc.	PAY	
			Voorhees, NJ		
			Residential Exposure Joint Venture	PAY	
			Washington, DC		
			Notable Solutions	PAY	
			Woodbridge, VA		
			Agricultural Handlers Exposure TF	PAY	
			Macon, MO		
			Nova Biogenetics	PAY	
			Atlanta, GA		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Andrew M. Martin Co.	PAY	
			Goodyear, AZ		
			Gro-Pro	PAY	
			Gig Harbor, WA		
			Starensier, Inc.	PAY	
			Newburyport, MA		
			Bikel International	PAY	
			Annapolis, MD		
			Traveler's Supply	PAY	
			Chicopee, MA		
			Eastern Chemical LLC	PAY	
			Greensboro, NC		
			Allergy Technologies, LLC	PAY	
			Voorhees, NJ		
			Pinebelt Processing	PAY	
			New Market, MD		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Nisus Corp.	PAY	
			Rockford, TN		
			Merial Ltd.	PAY	
			Duluth, GA		
			International Textile Group	PAY	
			Greensboro, NC		
			Callington Haven Pty.	PAY	
			Washington, DC		
			Claire Manufacturing Co.	PAY	
			Greeley, CO		
			Fly Guard Systems	PAY	
			Scio, OR		
			CEVA Animal Health	PAY	
			Rutherford, NJ		
			CRC Industries, Inc.	PAY	
			Warminster, PA		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Precision Control Technology	PAY	
			Brookfield, CT		
			Permethrin Data Group II	PAY	
			Washington, DC		
			U.S. Animal Health	PAY	
			Hauppauge, NY		
			Waterbury Companies	PAY	
			Independence, LA		
			Pyrethroid Working Group	PAY	
			Washington, DC		
			Amrep	PAY	
			Marietta, GA		
			NCH Corp.	PAY	
			Irving, TX		
			J.J. Maugel Co.	PAY	
			Woodbridge, VA		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Date September 17, 2012			EPA Reg. No./File Symbol 73801-X		Page 21 of 26
Applicant's/Registrant's Name & Address Tagros Chemicals India, Ltd. Ltd, c/o Biologic, Inc. 115 Obtuse Hill Road Brookfield, CT 06804			Product Permethrin Technical		
Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Synergy Labs	PAY	
			Fort Lauderdale, FL		
			Loveland Products, Inc.	PAY	
			Greeley, CO		
			Albaugh, Inc.	PAY	
			Valdosta, GA		
			The Fountainhead Group	PAY	
			New York Mills, NY		
			Garnik Industries, LLC	PAY	
			Baltimore, MD		
			Generic Endangered Species TF	PAY	
			Gig Harbor, WA		
			Gharda Generics	PAY	
			Sarasota, FL		
			CSPA/Permethrin Dermal Absorp	PAY	
			Washington, DC		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**401 M Street, S.W.**  
**WASHINGTON, D.C. 20460**

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Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Bayer Cropscience	PAY	
			Research Triangle Park, NC		
			United Industries Corp.	PAY	
			Bridgeton, MO		
			E.I. Du Pont De Nemours And. Co.	PAY	
			Wilmington, DE		
			Intervet Inc.	PAY	
			Roseland, NJ		
			Lebanon Seaboard Corp.	PAY	
			Lebanon, PA		
			Wilbur Ellis	PAY	
			Fresno, CA		
			Air Guard Control	PAY	
			Independence, LA		
			Contact Industries	PAY	
			Greeley, CO		
Signature <i>Jan M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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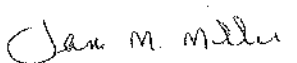
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Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Makhteshim Chemical Works	PAY	
			Raleigh, NC		
			Rainbow Technology Corp.	PAY	
			Greeley, CO		
			Phaeton Corporation	PAY	
			Salem, VA		
			Lawson Products, Inc.	PAY	
			Des Plains, IL		
			ZEP Commercial Sales & Service	PAY	
			Atlanta, GA		
			Weeks & Leo Co. Inc.	PAY	
			Des Moines, IA		
			Celex	PAY	
			St. Louis, MO		
			Agan Chem Mfg.	PAY	
			Raleigh, NC		
Signature <i>Jane M. Miller</i>			Name and Title Jane M. Miller, Agent		Date 09/17/2012

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Ingredient Permethrin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	CITE-ALL		Apollo Industries Inc.	PAY	
			Smyrna, GA		
			Ecohealth Inc.	PAY	
			Boston, MA		
			Car-Mac Products Inc.	PAY	
			Houston, TX		
			Gro Tec Inc.	PAY	
			Greeley, CO		
			KMG-Bernuth Inc.	PAY	
			Houston, TX		
			Meghmani Organics Ltd.	PAY	
			Stilwell, KS		
			Dairy Solutions	PAY	
			Salem, VA		
			Star Business Products	PAY	
			Goodyear, AZ		
Signature 			Name and Title Jane M. Miller, Agent		Date 09/17/2012

Based on Form Approved OMB No. 2070-0060

## DATA MATRIX

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Product

Permethrin Technical

[illegible]

Date \_\_\_\_\_

09/17/2012

## DATA MATRIX FOOTNOTES

1. **Description of Formulation Process:** Not applicable because the product is a TGA/MP.
2. **Submittal of Samples:** Not required at this time.
3. **Oxidation/Reduction:** Not applicable. Product does not contain oxidizing or reducing agents.
4. **Flammability / Flame Extension:** Not applicable. Product does not contain combustible liquids.
5. **Explosability:** Not applicable. Product is not potentially explosive.
6. **Storage Stability:** In progress.
7. **Miscibility:** Not applicable. Product is not intended for dilution with petroleum solvents.
8. **Corrosion Characteristics:** In progress.
9. **Dielectric Breakdown Voltage:** Not applicable. Product is not intended for use around electrical equipment.
10. **Viscosity:** Not required because product is a solid.
11. **Dissociation Constant:** Not required since there is no acidic or basic functionality in the Permethrin molecule. The measurement of pKa is only applicable to molecules which have an acid group (carboxylate, phenol or phosphoric acid for example) or basic group (amine). None of the methrin compounds fall into this class being neutral molecules.



